

ABSTRACT

There are provided a transmission and reception device having a function for correcting a data error in  
5 a communication path. In the transmission device, a  
redundant bit addition unit adds a redundant bit to each  
data bit which has been divided by one bit by a division  
unit; and an interleaver performs interleave. The  
transmission device transmits a signal which has been  
10 subjected to FM modulation by an FM modulation unit. In  
the reception device, a symbol decision unit performs a  
symbol decision at a Nyquist point for a signal which  
has been FM-demodulated by an FM demodulation unit; a  
bit conversion unit performs bit conversion according to  
15 the result of symbol decision; and a frame recovery unit  
deletes the redundant bit added by the redundant bit  
addition unit of the transmission device, from the bit  
string de-interleaved by a de-interleaver. Thus, it is  
possible to surely perform an error correction with a  
20 simple configuration even when the communication state  
is not in a preferable environment.